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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/760,126	01/16/2004	Bruce R. Ferguson	MSEMI.110A	7205	
20995	7590 05/04/2006		EXAM	EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET			PIGGUSH, AARON C		
FOURTEENT			ART UNIT	PAPER NUMBER	
IRVINE, CA	92614		2838		

DATE MAILED: 05/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/760,126	FERGUSON, BRUCE R.	
Office Action Summary	Examiner	Art Unit	
	Aaron Piggush	2838	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a lod will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication INTHS (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 18	B April 2006.		
	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal ma	tters, prosecution as to the merits is	
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 9-14 is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd	lrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>9-14</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers	·		
9)⊠ The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on <u>16 January 2004</u> is/a	are: a)⊠ accepted or b)□	objected to by the Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	·).
11) The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreia) All b) Some * c) None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
 Certified copies of the priority docume 	ents have been received.		
2. Certified copies of the priority docume	ents have been received in	Application No	
3. Copies of the certified copies of the p	-	n received in this National Stage	
application from the International Bure			
* See the attached detailed Office action for a I	ist of the certified copies no	t received.	
		•	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 12 April 2004.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

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Correction is required. See MPEP § 608.01(b).

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DETAILED ACTION

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Specification

1. The abstract of the disclosure is objected to because it contains the title of the invention.

The heading of the abstract should only read "Abstract" or "Abstract of the Disclosure".

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 9-14 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 23-25 and 27-29 of copending Application No. 10/758952. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 23 and 24 of application 10/758952 disclose all of the limitations of claims 9 and 10 of the instant application, wherein the "transistor" of the instant application is met by the "bi-directional transistor" of application 10/758952 because a bi-directional transistor

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is still a transistor. Additionally, claims 25, 27, 28, and 29 of application 10/758,952 claim all of the limitations of claims 11, 12, 13, and 14, of the instant application, respectively.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Faberman (US 5,978,236) in view of Krall (US 5,621,299).

With respect to claims 9 and 10, Faberman discloses a method for controlling battery power comprising the acts of: selectively providing a first external power source to a device coupled to a system power terminal ("AC power in" in Fig. 5); coupling an internal battery to the system power terminal via series-connected transistor (charge switch in Fig. 5 made up of no. D4F and S1F); charging the internal battery by regulating the transistor to conduct a charging current in a first direction from the system power terminal to a positive battery terminal during a charging mode (col 12 ln 7-22), wherein the charging current is linearly adjusted to limit the supply current (col 7 ln 65 to col 8 ln 41); and discharging the internal battery by regulating the transistor to conduct a discharging current in a second direction from the positive battery terminal to the system power terminal during a discharging mode (col 12 ln 18-35).

However, Faberman does not expressly disclose selectively providing a first or a second external power source to a device (i.e. wherein this is interpreted to mean that there are two separate external power sources which can be switched between), or adjusting the charging current to prevent a supply current from exceeding a predefined threshold.

Krall discloses selectively providing a first or a second external power source to a device (no. 27 and 29 in Fig. 1, including switches no. 14 and 16) and adjusting the charging current to prevent a supply current from exceeding a predefined threshold (no. 47 in Fig. 1, all components of Fig. 5, and col 6 ln 33-67), in order to prevent damage to the wiring or the batteries resulting from too great of a current or the heat generated therefrom.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a selectable first or second external power source and adjust the charging current to keep it from exceeding a predefined threshold in the device of Faberman, as did the device of Krall, so that the batteries and wiring would not be damaged from too great of a current.

With respect to claim 11, Faberman discloses wherein the impedance of the transistor varies to limit the level of the charging current (col 7 ln 65 to col 8 ln 41 and col 12 ln 7-35). As the switch is turned on and off, the amount of charging current is limited to a certain amount. Furthermore, when the switch is off, its impedance is so high that current cannot flow through, and when it is on, the impedance is lowered so that a current may flow.

With respect to claim 12, Faberman discloses wherein the charging mode occurs when the voltage on the system power terminal is greater than the voltage of the internal battery (col 3 ln 42-60 and col 5 ln 5-25). This is further understood because when the AC power of the

system is functioning correctly and supplying power to the system, it is used to charge the battery. Additionally, when there are two DC voltage sources (e.g. the battery and the rectified input power from the AC source), current flows from the source of the higher potential to the

source of the lower potential, as is well-known to one of ordinary skill in the art.

With respect to claim 13, Faberman discloses wherein the discharging mode occurs when the voltage on the system power terminal is less than the voltage of the internal battery (col 3 ln 42-60 and col 5 ln 5-25). This is further understood because when the AC power of the system is functioning incorrectly or is turned off and not supplying power to the system, the battery must be used to power the system. Additionally, when there are two DC voltage sources (e.g. the battery and the rectified input power from the AC source), current flows from the source of the higher potential to the source of the lower potential, as is well-known to one of ordinary skill in the art.

With respect to claim 14, Faberman discloses wherein the discharging mode occurs in response to a discharge command col 3 ln 42-60 and col 19 ln 1-34). When the main power supply (i.e. AC power in) is lost by a power outage or other type of unintentional failure, there is an automatic command wherein the battery will supply power to the device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Piggush whose telephone number is 571-272-5978. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AP

KARL EASTHOM SUPERVISORY PATENT EXAMINER

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